



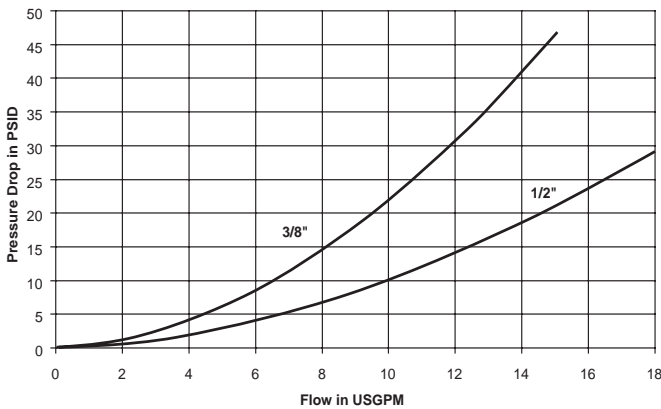
Applications

Non-Spill couplings by Parker are widely used in the public utility market where hydraulic oil spillage can constitute a serious safety hazard, particularly in overhead bucket hoists that are used for maintenance of high-voltage power transmission lines. These couplings are also used for quick change of hydraulic hand tools in the construction, railway maintenance and mining industries. They are also ideal for in-plant use where excess oil spillage can create a hazard.

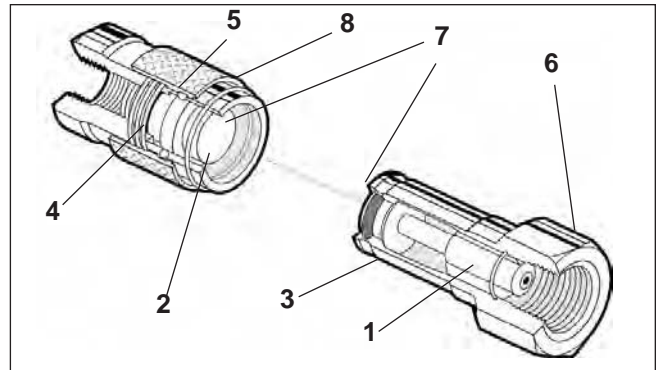
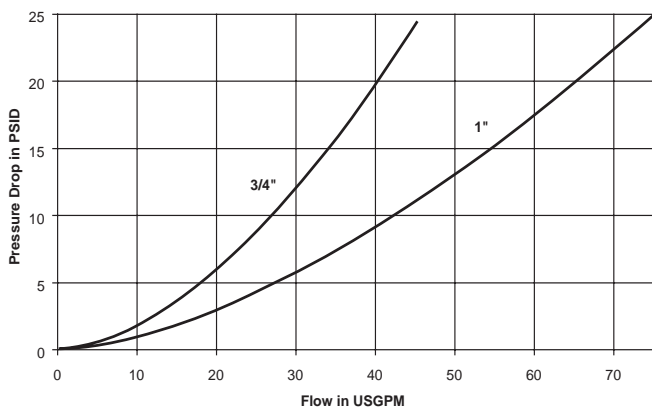
Note: See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

Performance

NS Series (3/8" & 1/2")
Test Fluid: Oil - 200 SUS



NS Series (3/4" & 1")
Test Fluid: Oil - 200 SUS



Features

1. Positive valve stop. The perch maintains valve alignment and provides metal to metal valve stop to ensure that the valves open fully, every time.
2. Captive valve seal assures "bubble tight" poppet sealing. The valve seal is positively captured by the metal poppet to minimize seal washout or damage from high velocity fluid.
3. Steel construction, Chromium-6 Free plated . Hardened nipples and sleeves and solid barstock construction for maximum resistance to damage from hydraulic and mechanical shock.
4. The seal is designed to withstand high pressures and provide reliable sealing. 1/2" and above sizes feature PTFE back-up rings that support mating seals for high pressure applications.
5. Durable ball-locking assure reliable connection, every time. A large number of locking balls distribute the work load evenly while providing alignment and swiveling action to reduce hose torque and prolong hose life.

CAUTION: these products are not to be used as swivels, rotation under pressure will result in excessive and premature wear.
6. Female pipe (NPSF), SAE O-Ring Boss and British pipe (BSPF) are available as standard.
7. Dry-Disconnect Series couplings employ flush valving when connecting or disconnecting. This means that the valves are mated together so that only small amounts of fluid can be lost during disconnection or air included during reconnection.
8. Sleeve locking mechanism prevents accidental disconnection when the coupling is dragged along the ground. Sleeve is rotated to engage the lock. The sleeve-lock feature is standard on this product.

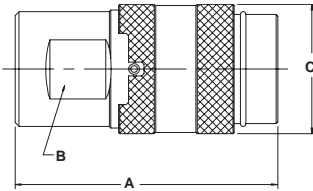
Specifications

Body Size (in.)	3/8	1/2	3/4	1
Rated Pressure (PSI)	2500	2500	2500	2500
Rated Flow (GPM)	10	12	30	50
Temperature Range (std seals)	-40° to +250°F			
Spillage (ML) (max. per disconnect)	0.020	0.070	0.150	0.220
Air Incl. (ML) (max. per disconnect)	0.010	0.020	0.050	0.070

Hydraulic Quick Couplings

Non-Spill Couplings NS Series

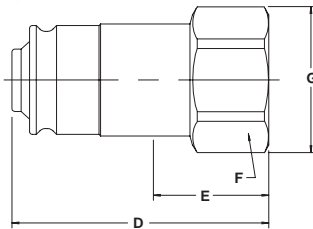
Couplers



Body Size (in.)	Part No. Steel	Thread Size	Dimensions (in.)			Wt. (LB.) P/Piece
			Overall Length	Hex Size	Largest Diameter	
			A	B	C	
3/8	NS-371-6FP	3/8-18 NPSF	2.10	1.06	1.13	0.36
3/8	NS-371-6FB	G3/8 BSPP	2.10	1.06	1.13	0.38
3/8	NS-371-8FO	3/4-16UNF	2.20	1.06	1.13	0.40
1/2	NS-501-8FP	1/2-14 NPSF	2.88	1.25	1.56	0.80
1/2	NS-501-8FB	G1/2 BSPP	2.95	1.25	1.56	0.74
1/2	NS-501-10FO*	7/8-14UNF	2.97	1.25	1.56	0.80
3/4	NS-751-12FP	3/4-14 NPSF	3.19	1.56	1.96	1.48
3/4	NS-751-12FB	G3/4 BSPP	3.38	1.56	1.96	1.54
3/4	NS-751-12FO	1 1/16-12UN	3.51	1.56	1.96	1.58
1	NS-1001-16FP	1-11 1/2 NPSF	3.70	1.75	2.25	2.35
1	NS-1001-16FB	G 1 BSPP	3.81	1.75	2.25	2.36
1	NS-1001-16FO	1 5/16-12UN	3.81	1.75	2.25	2.36

* Contact factory for Connect-Under-Pressure option availability in the 1/2" size.

Nipples



Body Size (in.)	Part No. Steel	Thread Size	Dimensions (in.)				Wt. (LB.) P/Piece
			Overall Length	Exposed* Length	Hex Size	Largest Diameter	
			D	E	F	G	
3/8	NS-372-6FP	3/8-18 NPSF	1.70	1.17	0.94	1.08	0.16
3/8	NS-372-6FB	G3/8 BSPP	1.78	1.25	0.94	1.08	0.16
3/8	NS-372-8FO	3/4-16UNF	1.91	1.38	1.06	1.23	0.20
1/2	NS-502-8FP	1/2-14 NPSF	1.81	0.69	1.06	1.23	0.20
1/2	NS-502-8FB	G1/2 BSPP	1.95	0.83	1.06	1.23	0.22
1/2	NS-502-10FO	7/8-14UNF	2.14	1.02	1.12	1.30	0.28
3/4	NS-752-12FP	3/4-14 NPSF	2.25	1.12	1.37	1.59	0.48
3/4	NS-752-12FB	G3/4 BSPP	2.47	1.34	1.37	1.59	0.54
3/4	NS-752-12FO	1 1/16-12UN	2.62	1.49	1.37	1.59	0.65
1	NS-1002-16FP	1-11 1/2 NSPF	2.64	1.54	1.62	1.88	0.72
1	NS-1002-16FB	G 1 BSPP	2.78	1.68	1.62	1.88	0.74
1	NS-1002-16FO	1 5/16-12UN	2.87	1.77	1.62	1.88	0.80

* This dimension represents the portion that is exposed when the nipple is inserted into the mating Parker Coupler.

Standard Port Configurations

- FP - Female Pipe Thread
- FO - Female Straight Thread
- FB - Female British Standard Pipe Parallel

Optional Seals



Optional Seals Suffix	
E4	Fluorocarbon
E5	Ethylene Propylene (EPR)
E35	Perfluoroelastomer (Contact factory for Seal options)

Hydraulic Quick Couplings

Non-Spill Adapters

Applications

Parker Non-Spill Adapters were designed due to the widespread use of several coupling types in the construction market. These adapters help the user adapt between poppet style couplings and non-spill type couplings. Adapters are widely available with Parker FEM and FF Series to Parker 6600 Series coupling connections. This product is especially useful where multiple hydraulic attachments are being used with skid steer loaders.

Materials Of Construction

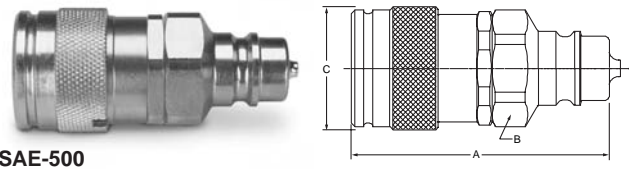
Body: Steel
 Finish: Chromium-6 Free plating

Specifications

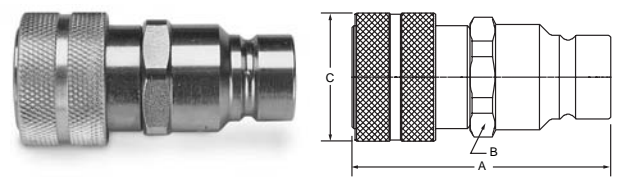
Body Size (in.)	1/2
Rated Pressure (PSI) – EAS/SAE	3625
Temperature Range	-40° to + 250°F
Max Spillage Per Disconnect (ml.) (Flush Face End)	.020
Max Air Inclusion Upon Connect (ml.) (Flush Face End)	.070
Rated Flow (GPM)	12

Adapters

EAS-500

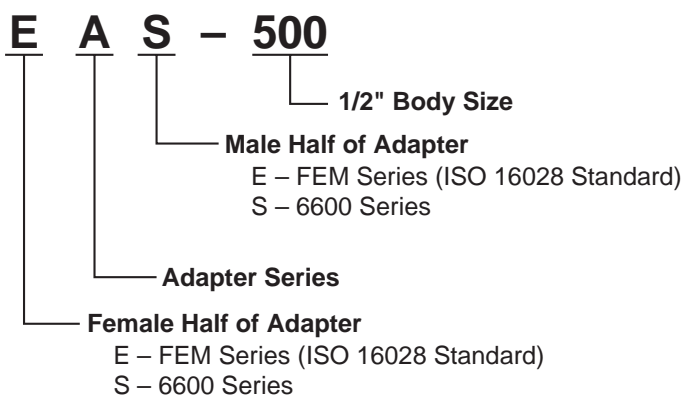


SAE-500



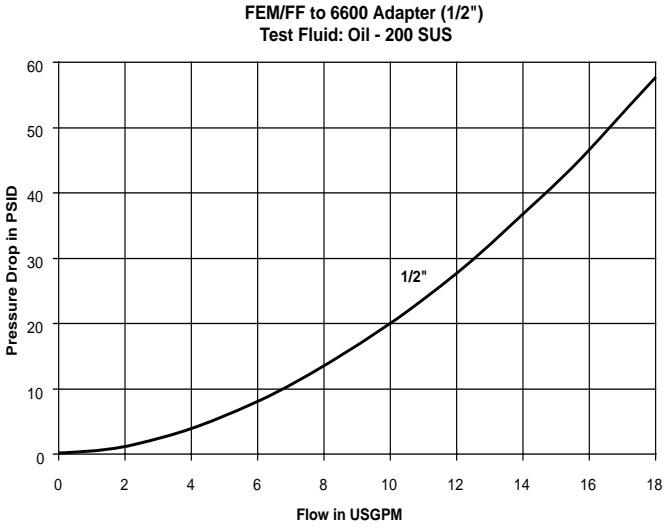
How To Order

Adapter Part Number



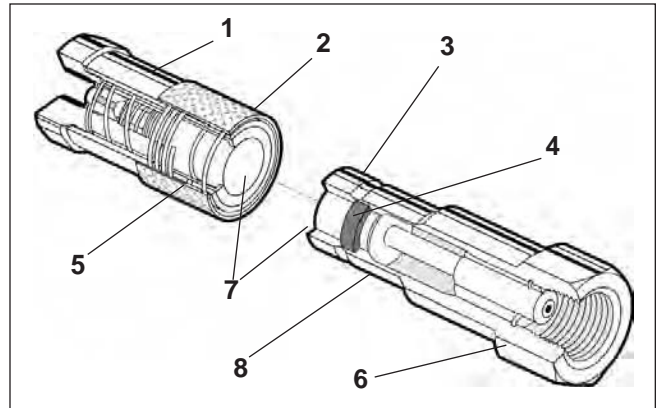
Body Size	Part Number	Thread Size	Overall Length		
			A	B	C
1/2	EAS-500	NA	3.364	1.380	1.50
1/2	SAE-500	NA	3.000	1.250	1.48

Performance



Hydraulic Quick Couplings

Non-Spill Couplings FF Series



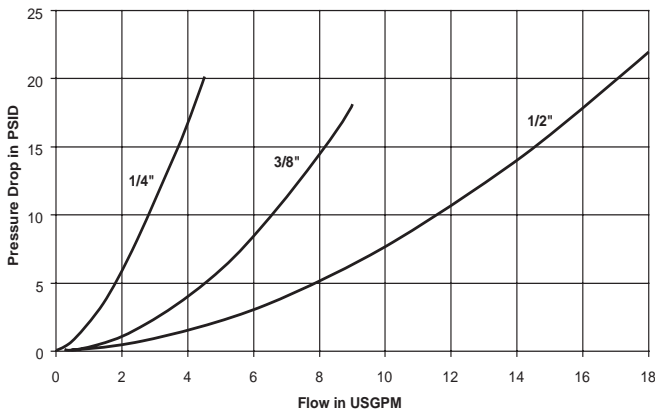
Applications

Parker FF Series couplings are widely used in the public utility market where hydraulic oil spillage can constitute a serious safety hazard, particularly in overhead bucket hoists that are used for maintenance of high-voltage power transmission lines. These couplings are also used for quick change of hydraulic tools in construction, railway maintenance and mining industries. The ease of cleaning makes them ideal for use in these types of hostile environments.

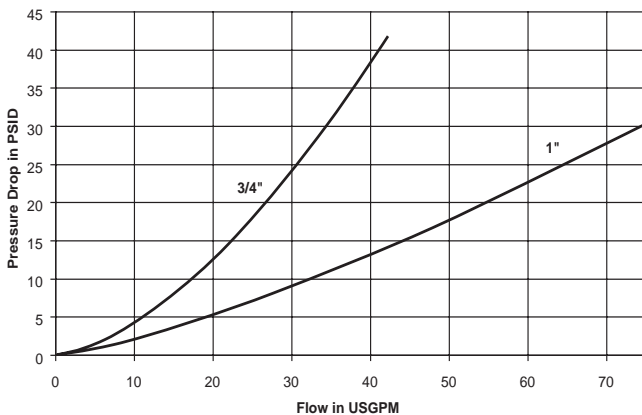
Note: See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

Performance

FF Series (1/4", 3/8", 1/2")
Test Fluid: Oil - 200 SUS



FF Series (3/4" & 1")
Test Fluid: Oil - 200 SUS



Features

1. Sleeve locking mechanism is engaged by rotating sleeve after connection. It prevents accidental disconnection when, for example, the coupling is dragged along the ground during use.
2. Sleeve mechanism is designed to help prevent dirt from entering the internal mechanism and thus causing faulty operation when connecting or disconnecting. The sleeve covers the retaining ring and also incorporates a dust seal in the spring area.
3. Steel construction, with Chromium-6 Free plating. Hardened nipples and sleeves and solid barstock construction for maximum resistance to damage from hydraulic and mechanical shock.
4. The blow-out resistant seal is designed to prevent damage during severe service conditions.
5. Durable ball-locking mechanism assures reliable connections, every time. A large number of locking balls distributes the work load evenly while providing alignment and swiveling action to reduce hose torque and prolong hose life. CAUTION: These products are not to be used as swivels. Rotation under pressure will result in excessive and premature wear.
6. Female pipe (NPSF), British pipe (BSPP) and SAE O-Ring Boss are available as standard.
7. FF Series couplings employ flush valving when connecting or disconnecting. This means that the valves are mated together so that only small amounts of fluid can be lost during disconnection or air inclusion during reconnection.
8. The 3/8" size conforms to HTMA (Hydraulic Tool Manufacturers Association) standards. All sizes incorporate flush face mating surfaces which greatly facilitate cleaning of the product when disconnected. HTMA couplings (3/8" only)-coupler and nipple are marked with a directional flow arrow as per specifications. However, couplings are bi-directional.

Specifications

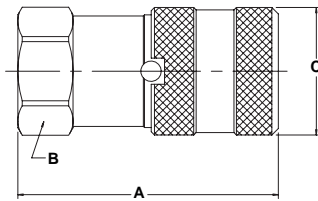
Body Size (in.)	1/4	3/8	1/2	3/4	1
Rated Pressure (PSI)	5000	3000	3000	3000	3000
Rated Flow (GPM)	3	6	12	28	50
Temperature Range	-40° to + 250°F				
Spillage (ML) (max. per disconnect)	.015	.015	.020	.150	.200
Air Inclusion (ML) (max. per connect)	.020	.020	.070	.100	.150



Hydraulic Quick Couplings

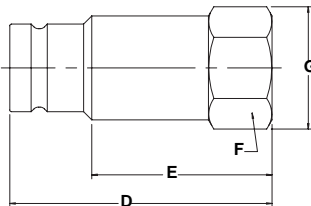
Non-Spill Couplings FF Series

Couplers



Body Size (in.)	Part No. Steel	Thread Size	Dimensions (in.)			Wt. (LB.) P/Piece
			Overall Length	Hex Size	Largest Diameter	
			A	B	C	
1/4	FF-251-4FP	1/4-18 NPSF	1.79	1.00	1.06	0.23
1/4	FF-251-4MP	1/4-18 NPTF	1.84	1.00	1.06	0.24
1/4	FF-251-6FO	9/16-18 UNF	1.91	1.00	1.06	0.23
3/8	FF-371-6FP	3/8-18 NPSF	2.39	1.06	1.20	0.44
3/8	FF-371-8FP	1/2-14 NPSF	2.80	1.06	1.20	0.50
3/8	FF-371-6FB	G3/8 BSPP	2.45	1.06	1.20	0.45
3/8	FF-371-8FB	G1/2 BSPP	2.80	1.06	1.20	0.48
3/8	FF-371-8FO	3/4-16 UNF	2.82	1.06	1.20	0.52
1/2	FF-501-8FP	1/2-14 NPSF	2.67	1.37	1.58	0.88
1/2	FF-501-10FO	7/8-14 UNF	2.89	1.37	1.58	1.05
3/4	FF-751-12FP	3/4-14 NPSF	3.50	1.75	1.94	1.84
3/4	FF-751-12FO	1 1/16-12 UNF	3.75	1.75	1.94	1.93
1	FF-1001-16FP	1-11 1/2NPSF	4.14	1.87	2.25	2.64
1	FF-1001-16FO	1 5/16-12UNF	4.24	1.87	2.25	2.68

Nipples



Body Size (in.)	Part No. Steel	Thread Size	Dimensions (in.)				Wt. (LB.) P/Piece
			Overall Length	Exposed* Length	Hex Size	Largest Diameter	
			D	E	F	G	
1/4	FF-252-4FP	1/4-18 NPSF	1.66	1.15	1.00	1.06	0.16
1/4	FF-252-4MP	1/4-18 NPTF	1.72	1.18	1.00	1.06	0.26
1/4	FF-252-6FO	9/16-18 UNF	1.66	1.15	1.00	1.06	0.16
3/8	FF-372-6FP	3/8-18 NPSF	2.31	1.71	0.94	1.08	0.26
3/8	FF-372-8FP	1/2-14 NPSF	2.64	2.04	1.06	1.19	0.32
3/8	FF-372-6FB	G3/8 BSPP	2.45	1.86	0.94	1.08	0.28
3/8	FF-372-8FB	G1/2 BSPP	2.70	2.16	1.06	1.19	0.32
3/8	FF-372-8FO	3/4-16 UNF	2.70	2.16	1.06	1.19	0.30
1/2	FF-502-8FP	1/2-14 NPSF	2.75	2.11	1.12	1.30	0.42
1/2	FF-502-10FO	7/8-14 UNF	2.97	2.29	1.12	1.30	0.44
3/4	FF-752-12FP	3/4-14 NPSF	3.38	2.47	1.50	1.73	1.00
3/4	FF-752-12FO	1 1/16-12 UNF	3.58	2.64	1.50	1.73	1.02
1	FF-1002-16FP	1-11 1/2NPSF	3.85	2.60	1.87	2.17	1.60
1	FF-1002-16FO	1 5/16-12UNF	3.85	2.60	1.87	2.17	1.70

* This dimension represents the portion that is exposed when the nipple is inserted into the mating Parker Coupler.

Standard Port Configurations

- FP - Female Pipe Thread
- MP - Male Pipe Thread
- FO - Female Straight Thread
- FB - Female British Standard Pipe Parallel

Optional Seals



Optional Seals Suffix*

- E4	Fluorocarbon
- E5	Ethylene Propylene (EPR)
- E35	Perfluoroelastomer (Contact Factory for Seal Options).

* Optional seals include O-ring & Back-Up Ring, not Anti-Blow Out bonded seal.

FF Series Repair Kits

1/4" Nipple	3/8" Nipple	1/2" Nipple	3/4" Nipple	1" Nipple	1/4" Coupler	3/8" Coupler	1/2" Coupler	3/4" Coupler	1" Coupler
FF-252-KIT	FF-372-KIT	FF-502-KIT	FF-752-KIT	FF-1002-KIT	FF-251-KIT	N/A	N/A	FF-751-KIT	FF-1001-KIT
FF-252-KIT-E4	FF-372-KIT-E4	FF-502-KIT-E4	FF-752-KIT-E4	FF-1002-KIT-E4	FF-251-KIT-E4	N/A	N/A	FF-751-KIT-E4	FF-1001-KIT-E4
FF-252-KIT-E5	FF-372-KIT-E5	FF-502-KIT-E5	FF-752-KIT-E5	FF-1002-KIT-E5	FF-251-KIT-E5	N/A	N/A	FF-751-KIT-E5	FF-1001-KIT-E5
					FF/FS-251-TOOL	N/A	N/A	FF/FS-751-TOOL	FF/FS-1001-TOOL





FEM Series couplings are designed to meet the stringent design and pressure requirements of ISO 16028. The FEM modular design also facilitates wider variations in fitting options. Parker FEM couplers are designed for use in the construction, utility and agricultural equipment markets. As with all Parker flush-face designs the non-spill feature eliminates hydraulic spillage and air inclusion when connecting or disconnecting hydraulic attachments. The FEM Series is also ideal for many other applications where hydraulic spillage is a concern and global interchangeability with other manufacturers is important.

Materials of Construction

- Body:** Steel
- Finish:** Chromium-6 Free plating
- Valve:** Flush face valving
- Seal:** Polyurethane or Nitrite; size dependant

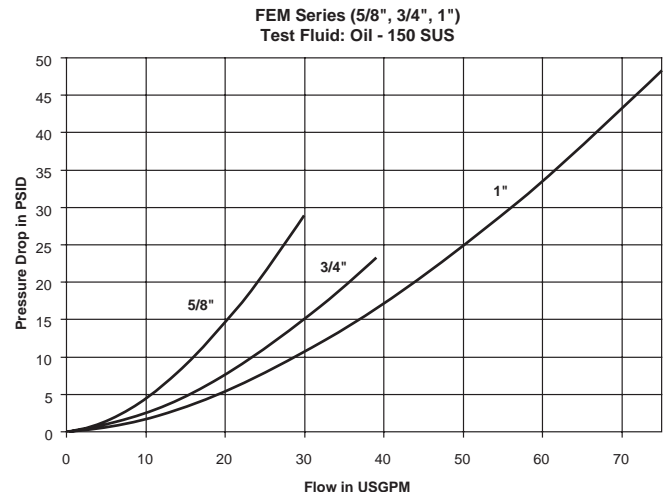
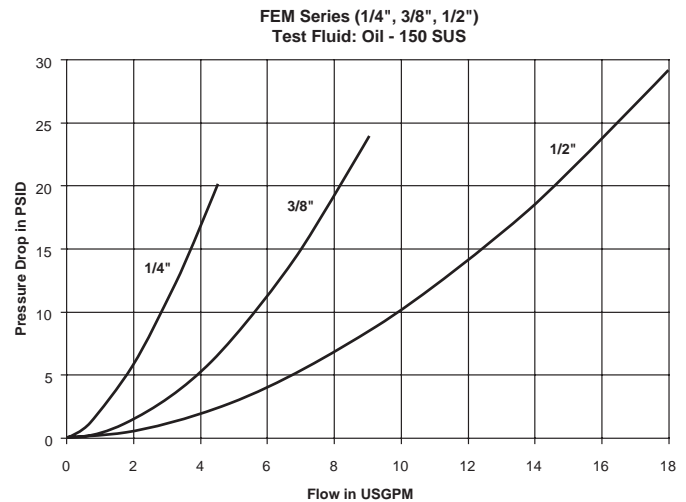
Features

- Meets or exceeds ISO 16028 specification design and test requirements.
- Wider size variations and increased pressures.
- ISO-16028 Interface for universal interchangeability.
- Modular design for increased flexibility with fitting port options.
- Brinell relief on male half to increase life and resist wear.
- Induction hardened locking surface to resist brinelling, damage and abuse.
- Heat Treated components to resist scratches and wear.
- Smooth flow path for low pressure drop.
- Heavy locking collar to resist damage and abuse.
- Blow-out resistant seal on male half seal prevents damage and premature failure with residual system pressure.
- Push-to-connect locking mechanism.
- Sleeve lock is a non-standard item.

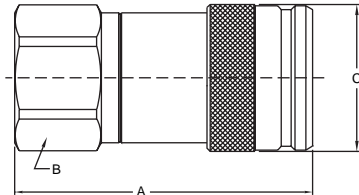
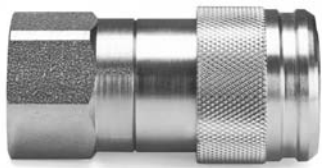
Specifications

Body Size (in.)	1/4	3/8	1/2	5/8	3/4	1
Rated Pressure (PSI)	4568	3625	3625	3625	3625	2900
Rated Flow (GPM)	3	6	12	20	26	50
Temperature Range (std.seals)	-40 to +250° F					
Spillage (ML) (max. per disconnect)	0.015	0.015	0.020	0.030	0.150	0.200
Air Inclusion (ML) (max. per connect)	0.020	0.020	0.070	0.070	0.100	0.150

Performance

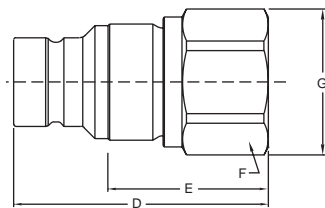


Couplers



Body Size (in.)	Part Number	Thread Size	Overall Length	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			A	B	C	
1/4	FEM-251-4FP-NL	.250-18 NPSF	1.96	1.00	1.06	0.25
1/4	FEM-251-6FO-NL	.562-18 UNF	2.08	1.00	1.06	0.25
3/8	FEM-371-6FP-NL	.375-18 NPSF	2.89	1.06	1.19	0.51
3/8	FEM-371-8FO-NL	.750-16 UNF	2.89	1.06	1.19	0.51
1/2	FEM-501-8FP-NL	.500-14 NPSF	3.04	1.06	1.58	0.93
1/2	FEM-501-8FO-NL	.750-16 UNF	2.96	1.25	1.58	0.93
1/2	FEM-501-10BMS-NL	1.000-14 UNS	4.02	1.38	1.58	0.95
1/2	FEM-501-10BMF-NL	.875-14 UNF	4.03	1.38	1.58	0.93
1/2	FEM-501-10FO-NL	.875-14 UNF	3.04	1.25	1.58	0.93
1/2	FEM-501-12FO-NL	1.062-12 UN	3.24	1.38	1.58	0.93
5/8	FEM-621-12FO-NL	1.062-12 UNF	3.70	1.50	1.70	1.40
3/4	FEM-751-12FP-NL	.750-14 NPSF	3.95	1.75	1.95	2.04
3/4	FEM-751-12FO-NL	1.062-12 UNF	3.95	1.75	1.95	2.04
1	FEM-1001-16FP-NL	1.000-11.5 NPSF	4.21	2.00	2.25	2.70
1	FEM-1001-16FO-NL	1.312-12 UNF	4.21	2.00	2.25	2.70

Nipples



Body Size (in.)	Part Number	Thread Size	Overall Length	Exposed Length*	Hex Size	Largest Diameter	Wt. (LB) P/Piece
			D	E	F	G	
1/4	FEM-252-4FP	.250-18 NPSF	1.71	1.25	1.00	1.06	0.17
3/8	FEM-372-6FP	.375-18 NPSF	2.48	1.83	1.06	1.16	0.32
3/8	FEM-372-8FO	.750-16 UNF	2.48	1.83	1.06	1.16	0.32
1/2	FEM-502-8FP	.500-14 NPSF	2.85	2.15	1.38	1.50	0.54
1/2	FEM-502-10FO	.875-14 UNF	2.85	2.15	1.38	1.50	0.54
1/2	FEM-502-10BMS	1.000-14 UNS	3.84	3.14	1.38	1.50	0.56
1/2	FEM-502-10BMF	.875-14 UNF	3.85	3.15	1.38	1.50	0.54
1/2	FEM-502-12FO	1.062-12 UN	3.05	2.35	1.38	1.50	0.54
5/8	FEM-622-12FO	1.062-12 UN	3.09	2.39	1.50	1.65	0.76
3/4	FEM-752-12FP	.750-14 NPSF	3.38	2.46	1.75	1.94	1.12
3/4	FEM-752-12FO	1.062-12 UN	3.38	2.46	1.75	1.94	1.12
1	FEM-1002-16FP	1.000-11.5 NPSF	3.85	2.93	2.00	2.25	1.72
1	FEM-1002-16FO	1.312-12 UN	3.85	2.93	2.00	2.25	1.72

* This dimension represents the portion that is exposed when the nipple is inserted into the mating Parker Coupler.

Standard Port Configurations

- FP - Female Pipe Thread
- FO - Female Straight Thread
- BMF - Bulkhead Male Flare 37° JIC
- BMS - Bulkhead Male Seal-lok

Other Fitting Port Configurations available upon request.



Description

FC Series products operate slightly different from traditional non-spill couplings. With no pressure in the coupler and up to 3000 PSI of trapped pressure in the nipple, begin to couple the mating halves. Delay momentarily during connection to allow trapped pressure to equalize with the mating half before completing the connection.

Applications

Parker FC Series nipple provides connect-under-pressure capability with up to 3000 PSI of trapped pressure in the nipple and are ideal for applications where residual pressure makes reconnect difficult. Utilized primarily in the construction equipment market, FC Series products are commonly found on hydraulic attachments used in skid steer applications. **The FC Series mates with the FF Series Parker interface.**

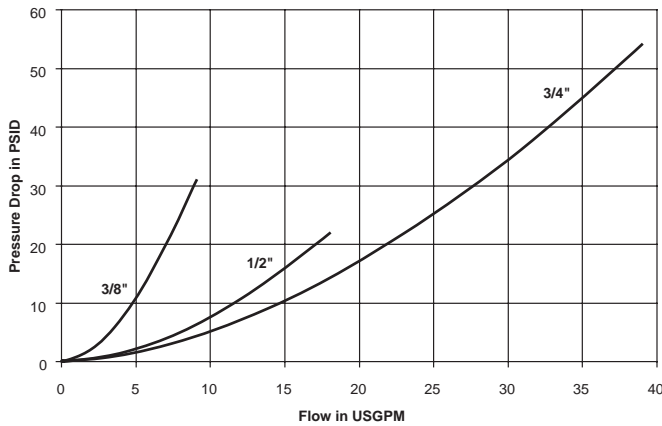
Features

- Connect-Under-Pressure nipple only.
- Hardened locking surface.
- Steel construction, Chromium-6 Free plating for corrosion resistance.
- Blow-out resistant seal in male nipple.
- Flush Face Valving

Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

Performance

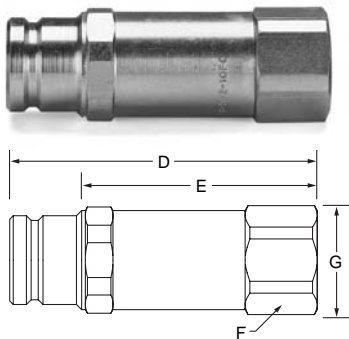
FC Series (3/8", 1/2", 3/4")
Test Fluid: Oil - 200 SUS



Specifications

Body Size (in.)	3/8	1/2	3/4
Rated Pressure (PSI)	3000	3000	3000
Rated Connect-Under-Pressure Capability	3000	3000	1500
Rated Flow (GPM)	6	12	26
Spillage (ML) (max. per disconnect)	.015	.020	.015
Air Inclusion (ML) (max. per connect)	.020	.070	.100

Nipples



Body Size (in.)	Part No. Steel	Mating Half	Thread Size	Dimensions (in.)				Wt. (LB.) P/Piece
				Overall Length	Exposed Length	Hex Size	Largest Diameter	
				D	E	F	G	
3/8	FC-372-6FP	FF-371	3/8-18 NPSF	3.30	2.58	1.062	1.16	0.45
3/8	FC-372-8FO	FF-371	3/4-16 UNF	3.30	2.58	1.062	1.16	0.42
3/8	FC-372-8FP	FF-371	1/2-14 NPSF	3.30	2.58	1.062	1.16	0.42
1/2	FC-502-8FP	FF-501	1/2-14 NPSF	3.46	2.65	1.125	1.22	0.53
1/2	FC-502-10FO	FF-501	7/8-14 UNF	3.46	2.65	1.125	1.22	0.52
3/4	FC-752-12FO	FF-751	1 1/16-12 UNF	4.81	3.72	1.500	1.65	1.32
3/4	FC-752-12FP	FF-751	3/4-14 NPSF	4.81	3.72	1.500	1.65	1.34

Standard Port Configurations

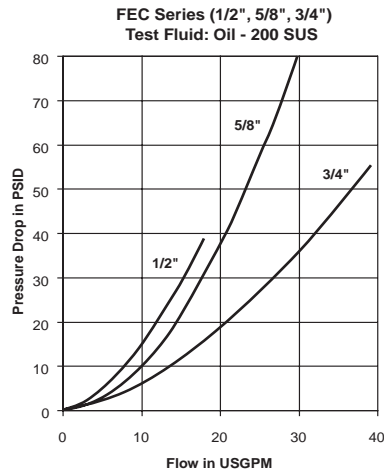
- FP - Female Pipe Thread
- FO - Female Straight Thread



Description

FEC Series products operate slightly different from traditional non-spill couplings. With no pressure in the coupler and up to 3000 PSI of trapped pressure in the nipple, begin to couple the mating halves. Delay momentarily during connection to allow trapped pressure to equalize with the mating half before completing the connection.

Performance



Applications

Parker FEC Series nipple provide connect-under-pressure capability with up to 3000 PSI of trapped pressure in the nipple and are ideal for applications where residual pressure makes reconnect difficult. Utilized primarily in the construction equipment market, FEC Series products are commonly found on hydraulic attachments used in skid steer applications. **The FEC Series mates with the FEM Series interface ISO 16028 couplers.**

Features

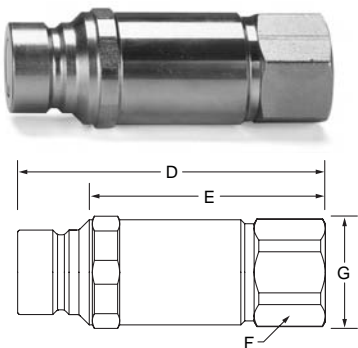
- Connect-Under-Pressure nipple.
- Hardened locking surface.
- Steel construction, Chromium-6 Free plating for corrosion resistance.
- Anti blowout Nitrile/PTFE bonded nipple seal.
- Flush face valving.

Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

Specifications

Body Size (in.)	1/2	5/8	3/4
Rated Pressure (PSI)	3625	3625	3625
Rated Connect-Under-Pressure Capability	3000	1700	1500
Rated Flow (GPM)	12	20	26
Spillage (ML) (max. per disconnect)	0.020	0.03	0.150
Air Inclusion (ML) (max. per connect)	0.070	0.070	0.100

Nipples



Body Size (in.)	Part No. Steel	Mating Half	Thread Size	Dimensions (in.)				Largest Diameter	Wt. (LB.) P/Piece
				Overall Length	Exposed Length	Hex Size	G		
1/2	FEC-502-8FP	FEM-501	1/2-14 NPSF	3.50	2.68	1.125	1.22		
1/2	FEC-502-10FO	FEM-501	7/8-14 UNF	3.50	2.68	1.125	1.22		
1/2	FEC-502-12FO	FEM-501	1 1/16-12 UNF	3.79	2.97	1.500	1.65		
5/8	FEC-622-12FO	FEM-621	1 1/16-12 UN	4.19	3.39	1.500	1.65		
3/4	FEC-752-12FO	FEM-751	1 1/16-12 UN	4.84	3.76	1.500	1.65		

Standard Port Configurations

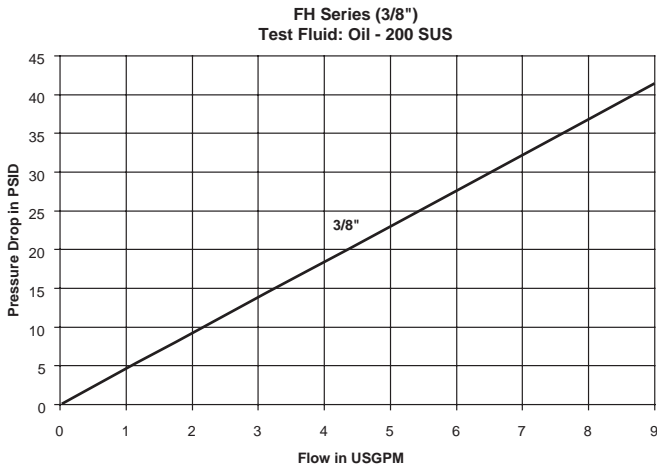
- FP - Female Pipe Thread
- FO - Female Straight Thread



Description

Parker FH Series high pressure couplings are an innovative product combining the advantages of a flush-face design with a highly technical performance of a rated pressure of 10,000 PSI. For safety purposes, this product does not interchange with flush-face couplings having a lower pressure rating.

Performance



Features

- 10,000 PSI operating pressure (700 bar).
- Flush face, non-spill valving, both halves.
- Sleeve on coupler and nipple body have a RED finish for identification purposes.
- Simple Push-To-Connect operation.
- Sleeve-Lock to prevent accidental disconnect.
- Non interchangeable with low pressure flush face couplings.
- Meets performance and dimensional specifications of HTMA requirements, 10,000 PSI (700 bar).
- Anti Blow-Out Nitrile/PTFE bonded nipple seal.

Applications

- Hydraulic Crimpers, Cutters, Jacks, Benders, Clamps, Wedges
- Rescue Equipment
- High Pressure Test Equipment

Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

Materials of Construction

Body:	Steel
Finish:	Chromium-6 Free plating
Valve:	Flush Face Valves
Seal:	Anti blow-out Nitrile/PTFE bonded seal (nipple only)

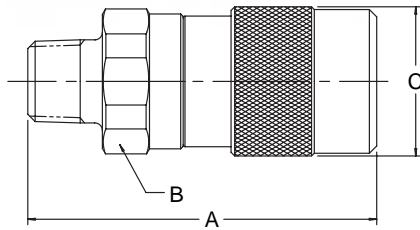
Specifications

Body Size (in.)	3/8
Rated Pressure (PSI)	10,000
Rated Flow (GPM)	6
Temperature Range	-40° to +250° F
Spillage (ML) (max. per disconnect)	.020
Air Inclusion (ML) (max. per connect)	.070

Hydraulic Quick Couplings

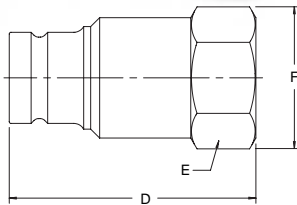
Non-Spill Couplings FH Series

Couplers



Body Size (in.)	Part No. Steel	Thread Size	Overall Length	Wrench Flats	Dimensions (in.)		Wt. (LB.) P/Piece
					A	B	
3/8	FH-371-6FP	3/8 -18 NPTF	2.63	1.12	1.23	0.44	
3/8	FH-371-6MP	3/8 -18 NPTF	2.85	1.12	1.23	0.45	
3/8	FH-371-6FB	G3/8 -BSPP	2.55	1.12	1.23	0.45	

Nipples



Body Size (in.)	Part No. Steel	Thread Size	Overall Length	Wrench Flats	Dimensions (in.)		Wt. (LB.) P/Piece
					D	E	
3/8	FH-372-6FP	3/8-18 NPTF	2.12	1.00	1.23	0.26	
3/8	FH-372-6FB	G3/8 -BSPP	2.12	1.00	1.23	0.28	

Standard Port Configurations

FP - Female Pipe Thread

MP - Male Pipe Thread

FB - Female British Standard Parallel



Applications

Parker FS Series couplings virtually eliminate fluid loss upon disconnection, and minimize air inclusion during connections. They are ideal for use where spillage may cause undesirable conditions or constitute a safety hazard. The FS Series couplings have double shut-off flush mating valves that are suitable for sealing off media in chemical processing, chemical dispensing, food processing, and other corrosive applications. Working pressures to 2000 PSI.

Note: Protective dust plugs and caps play a crucial role in the life of a quick coupling and no purchase of a hydraulic quick coupling is complete without the selection of an appropriate dust plug and cap. See pages noted in Table of Contents for dust plugs and caps for the Parker full line of hydraulic couplings.

Specifications

Body Size (in.)	1/4	3/8	1/2	3/4	1
Rated Pressure (PSI)	2000	2000	2000	2000	2000
Rated Flow (GPM)	3	6	12	28	50
Spillage (ML) (max. per disconnect)	.015	.015	.020	.150	.250
Air Inclusion (ML) (max. per connect)	.010	.020	.070	.100	.182
CV	0.9	1.8	3.0	7.0	10.1

Temperature Range (continuous)		
Part No. Seal Suffix	Seal Compound	Temp°F Rating
None*	Fluorocarbon	-15 to 400
E5	Ethylene Propylene (EPR)	-65 to 300
E1	Nitrile	-40 to 250
E35	Perfluoroelastomer (Contact Factory)	-20 to 600

*Fluorocarbon is standard seal.

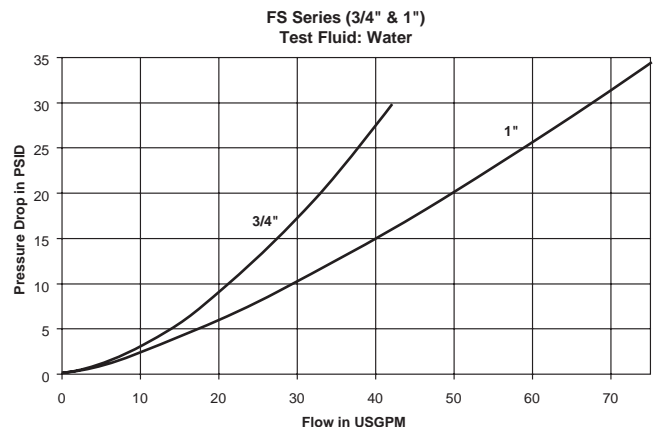
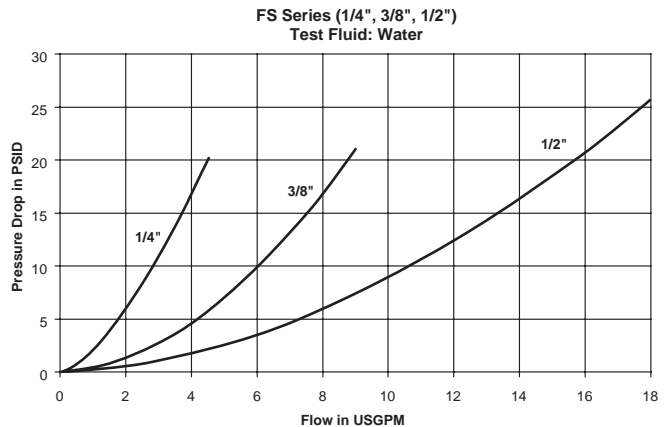
Features

- Simple to operate: Push to connect, pull on knurled sleeve to disconnect.
- Flush face valves exhibit minimal spillage upon disconnect and minimal air inclusion upon connect.
- Superior locking ball design – a large number of locking balls distribute the workload better and allow for some rotation between the male and female halves of the coupling under pressure.
- Excellent flow vs pressure drop characteristics when compared with other low spill quick couplings.
- Material construction is 316 stainless steel with fluorocarbon seals as standard.
- Wide range of seal materials available.
- Repair kits available to replace critical elastomer seals (all sizes).

Materials of Construction

- Machined Parts:** Stainless Steel, AISI type 316
- Springs:** Stainless Steel, AISI type 316.
- Locking Balls:** 1/4" - 302 SS;
3/8" - 1" - Tungsten Carbide
- Backup Washers:** PTFE
- Elastomer Seals:** Fluorocarbon is standard.
Wide range is available.

Performance Flow Data

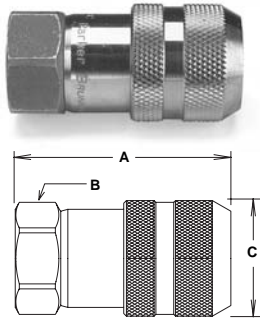


Hydraulic Quick Couplings

Non-Spill Couplings FS Series

Couplers

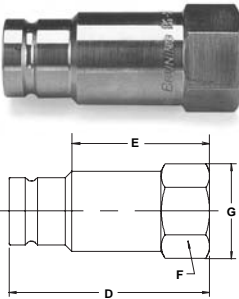
Female Pipe Thread



Body Size (in.)	Part No.	Thread Size	Overall Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
				A	B	
1/4	FS-251-4FP	1/4-18 NPT	1.79	1.00	1.06	0.25
1/4	FS-251-4MP	1/4-18 NPTF	2.00	1.00	1.06	0.25
1/4	FS-251-6FO	9/16-18UNF	1.92	1.00	1.06	0.24
3/8	FS-371-6FP	3/8-18 NPT	2.52	1.06	1.30	0.58
3/8	FS-371-8FO	3/4-16 UNF	2.83	1.12	1.30	0.63
1/2	FS-501-8FP	1/2-14 NPT	2.74	1.38	1.58	0.92
1/2	FS-501-10FO	7/8-14 UNF	2.86	1.38	1.58	0.96
3/4	FS-751-12FP	3/4-14 NPT	3.63	1.75	1.99	2.00
3/4	FS-751-12FO	1-1/16-12 UNF	3.73	1.75	1.99	2.12
1	FS-1001-16FP	1-11 1/2 NPT	4.14	1.87	2.25	2.76
1	FS-1001-16FO	1-5/16-12 UNF	4.24	1.87	2.25	2.80

Nipples

Female Pipe Thread



Body Size (in.)	Part No.	Thread Size	Overall Length	Exposed Length	Hex Size	Largest Diameter	Wt. (LB.) P/Piece
			D	E	F	G	
1/4	FS-252-4FP	1/4-18 NPT	1.66	1.14	1.00	1.06	0.18
1/4	FS-252-4MP	1/4-18 NPT	1.87	1.34	1.00	1.06	0.18
1/4	FS-252-6FO	9/16-18 UNF	1.66	1.26	1.00	1.06	0.17
3/8	FS-372-6FP	3/8-18 NPT	2.31	1.71	.94	1.08	0.26
3/8	FS-372-8FO	3/4-16 UNF	2.45	1.71	1.06	1.19	0.30
1/2	FS-502-8FP	1/2-14 NPT	2.75	2.11	1.12	1.30	0.44
1/2	FS-502-10FO	7/8-14 UNF	2.85	2.03	1.12	1.30	0.48
3/4	FS-752-12FP	3/4-14 NPT	3.38	2.47	1.50	1.73	1.02
3/4	FS-752-12FO	1-1/16-12 UNF	3.38	2.27	1.50	1.73	1.14
1	FS-1002-16FP	1-11 1/2 NPT	3.89	2.60	1.87	2.17	1.60
1	FS-1002-16FO	1-5/16 12 UNF	3.89	2.51	1.87	2.17	1.64

Standard Port Configurations

- FP - Female Pipe Thread
- MP - Male Pipe Thread
- FO - Female Straight Thread

FS Series Repair Kits

Repair kits are available for both coupler and nipple half of FS coupling. Kits include replacement elastomer seals, valve assembly and instructions to perform rebuild. Spline tool must be ordered separately to accomplish coupler half repair. Other tools required: Vise, Allen Wrench and Open End Wrench.



FS Repair Kits		Replacement Seals	
TOOL Spline tool for Coupler Repair	No Suffix	Fluorocarbon Seals	
	E5	Ethylene Propylene (EPR)	
	E35	Perfluoroelastomer (Contact the Factory)	

Nipple Repair Kits

1/4" Nipple	3/8" Nipple	1/2" Nipple	3/4" Nipple	1" Nipple
FS-252-KIT	FS-372-KIT	FS-502-KIT	FS-752-KIT	FS-1002-KIT
FS-252-KIT-E5	FS-372-KIT-E5	FS-502-KIT-E5	FS-752-KIT-E5	FS-1002-KIT-E5

Coupler Repair Kits

1/4" Coupler	3/8" Coupler	1/2" Coupler	3/4" Coupler	1" Coupler
N/A	FS-371-KIT	FS-501-KIT	FS-751-KIT	FS-1001-KIT
N/A	FS-371-KIT-E5	FS-501-KIT-E5	FS-751-KIT-E5	FS-1001-KIT-E5
N/A	FF/FS-371-TOOL	FS-501-TOOL	FF/FS-751-TOOL	FF/FS-1001-TOOL